

wherein the controllable signal combiner element implements an assignment of signals from each of at least a subset of the channel elements of a given one of the channel unit boards for transmission on one or more of a plurality of carriers of the system.--

--20. The base station of claim 19 wherein the controllable signal combiner element further comprises:

a set of controllable signal combiners associated with a given one of the channel unit boards and each having a plurality of inputs, with each of the inputs coupled to an output of a particular one of the plurality of channel elements of the given channel unit board; and

a multi-carrier combiner having a plurality of inputs, with each of the inputs coupled to an output of a corresponding one of the controllable signal combiners, the multi-carrier combiner further having an additional input coupled to a bus output of another of the plurality of channel unit boards, and generating a set of outputs on a system transmit bus.--

--21. The base station of claim 19 wherein each of the channel unit boards generates a set of digital in-phase (I) and quadrature (Q) signals for each of the plurality of carriers.--

--22. The base station of claim 19 wherein each of at least a subset of the channel unit boards includes a total of N channel elements, and each of the channel elements may be assigned to one of up to N carriers of the system.--

--23. The base station of claim 19 further including a control computer operative to generate one or more control signals for application to the controllable signal combiners and the multi-carrier combiner so as to control assignment of each of at least a subset of the channel elements of the given channel unit board to one or more of the plurality of carriers of the system.--

--24. A base station for use in a wireless communication system, comprising:

a plurality of channel unit boards each including a plurality of channel elements for providing processing operations for signals received by the system; and

a controllable selector associated with a given one of the channel unit boards and receiving as inputs a set of signals associated with a receive bus of the system, the controllable selector having a plurality of outputs, each coupled to a corresponding input of one of the channel elements of the given channel unit board;

wherein the controllable selector implements an assignment of received signals from each of a plurality of carriers of the system to each of at least a subset of the channel elements of the given channel unit board.--

--25. The base station of claim 24 wherein each of the channel unit boards processes a set of digital in-phase (I) and quadrature (Q) signals for each of the plurality of carriers.--

--26. The base station of claim 24 wherein each of at least a subset of the channel unit boards includes a total of N channel elements, and each of the channel elements may be assigned to one of up to N carriers of the system.--

--27. The base station of claim 24 further including a control computer operative to generate one or more control signals for application to the controllable selector so as to control assignment of the received signals from each of the plurality of carriers of the system to each of at least a subset of the channel elements of the given channel unit board.--

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REMARKS

The present application was filed on October 18, 1999 with claims 1-18. In this Preliminary Amendment, Applicants amend the application to add new claims 19-27.

Date: August 30, 2000

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